

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****RECEIVED  
CENTRAL FAX CENTER****MAR 29 2004**

Applicant(s): Michael R. Krames; Mihail M. Sigalas; Jonathan J. Wierer Jr.

Assignee: Lumileds Lighting U.S., LLC

Title: LED Efficiency Using Photonic Crystal Structure

Serial No.: 10/059,588

Filing Date: January 28, 2002

Examiner: Douglas A. Wille

Group Art Unit: 2814

Docket No.: M-11547 US

**OFFICIAL**San Jose, California  
March 29, 2004Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**

Dear Sir:

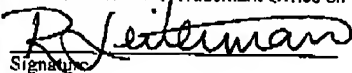
Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the document listed on the accompanying form PTO/SB/08B is called to the attention of the Examiner for the above patent application. A Copy of the cited articles is enclosed.

Citation of this document shall not be construed as:

1. an admission that the document is necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

**Certification of Facsimile Transmission**

I hereby certify that this paper is being facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

  
Signature3/29/04  
Date

Respectfully submitted,

Rachel V. Leiterman  
Attorney for Applicant(s)  
Reg. No. 46,868Patent Law Group LLP  
2635 North First St.  
Suite 223  
San Jose, CA 95134  
(408) 382-0480  
FAX (408) 382-0481

PTO/SB/089 (08-03)

Approved for use through 07/31/2008, OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/059,588
Filing Date	January 28, 2002
First Named Inventor	Michael R. Krames
Art Unit	2814
Examiner Name	Douglas A. Wille
Attorney Docket Number	M-11547 US

Sheet

of

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		M. BORODITSKY et al., "Surface recombination measurements on III-V candidate materials for nanostructure light-emitting diodes", Journal of Applied Physics, Vol. 87, No. 7, April 1, 2000, pp. 3497-3504.	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.